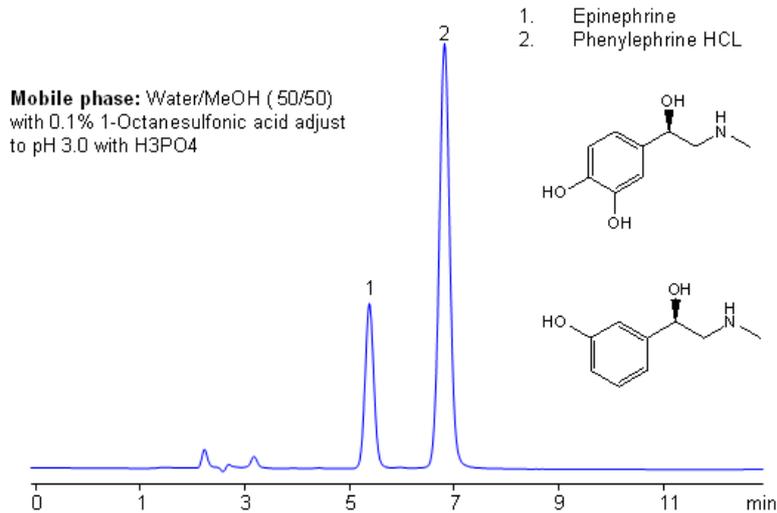


USP Methods for the Analysis of Epinephrine Using the Legacy L1 Column

Column: Legacy L1
Size: 4.6 x 150 mm
Mobile phase: Water/MeOH (50/50) with 0.1% 1-Octanesulfonic acid adjust to pH 3.0 with H3PO4
Flow: 1.0 mL/min
Detection: UV 270 nm



Application Notes: Epinephrine is a synthetic adrenaline used to treat cardiac arrest and anaphylaxis. Phenylephrine is a decongestant and is often used instead of pseudoephedrine. According to the USP methods epinephrine contains no less than 97% and no more than 100.5 percent of epinephrine calculated on a dried basis. The USP HPLC method for the separation of phenylephrine and epinephrine was developed on Legacy L1 column according to the US Pharmacopeia methodology. L1 classification is assigned to reversed-phase HPLC column containing C18 ligand. Support for the material is spherical silica gel with particles size 3-10 μm and pore size of 100-120 \AA . Resolution between critical pairs corresponds to rules and specifications of USP.

Application Columns: Legacy L1 C18HPLCcolumn

Application compounds: Epinephrine and Phenylphrine Mobile phase: Water/MeOH (50/50) with 1% 1-Octanesulfonic acid adjust to pH 3.0 with H3PO4

Detection technique: UV

Reference: USP35: NF30

SIELC's family of Legacy columns is based on the United States Pharmacopeia's (USP) published chromatographic methods and procedures. Numerous brands have columns used in USP reference standards and methods. USP has created various designations to group together columns with similar types of packing and properties in the solid phase. SIELC's Legacy columns adhere to these strict requirements and properties, allowing you to easily replace older columns that are no longer available without needing to significantly modify your method or SOPs.

Method Parameters

Column	Legacy L1, 4.6x150 mm, 5 µm, 100 Å
Mobile Phase	MeOH/MeOH – 50/50%
Buffer	1-Octanesulfonic acid adjust to pH 3.0 with H ₃ PO ₄ – 0.1%
Flow Rate	1.0 mL/min
Detection	UV, 270 nm

Quelle: <https://sielc.com/Application-USP-Methods-for-the-Analysis-of-Epinephrine-Using-the-Legacy-L1-Column>